TO SELECT THE PROPERTY OF THE

- BARDACH, Januan; JAMISZEWSKA, Waleria; PARTYKA, Wieslawa;

Activities of the center for the treatment of developmental defects of the face during the period of Jan. 1, 1962 -- July 1, 1964. Cass. stomat. 18 no.8/9:927-930 Ag-S 165.

1. Z Osrodka Leczenia Wad Rozwojowych Twarzy przy Klinice Chirurgii Szczekowo-Twarzowej AM w Lodzi (Kierownik: prof. dr. med. J. Bardach).

TRONCZYNSKA, Jadwiga; PERCZYNSKA-PARTYKA, Wieslawa

Indications for the use of a palato-pharyngeal flap in the surgical correction of cleft palate. Czas. stomat. 18 no.8/9: 947-950 Ag-S '65.

1. Z Osrodka Leczenia Wad Rozwojowych Twarzy przy Klinice Chirurgii Szczekowo-Twarzowej AM w Lodzi (Kierownik: prof. dr. med. J. Bardach).

On work of the phoniatry clinic in Lodz. Cesk. otolaryng. 11 no.1: 61-63 F '62.

(PHONETICS hosp & clinics)

TRONCZYNSKA, Jadwiga

THONCZYNSKA, Jadwiga

Umisual case of systemic disease of the cartilages. Otolar polska 12 no.1: 89-92 1958.

> 1. Z Kliniki Otolaryngologicznej A. M. w Lodzi Kierownik: prof. dr med. A. Radziminski.

> > (EAR, EXTERNAL, dis.

edema as manifest. of systemic inflamm. of cartilages, case report (Pol))

(CARTIIAGE, dis.

systemic inflamm. manifested by edema of ear, case report (Pol))

(EDEMA. etiol. & pathogen.

ear, as manifest. of systemic inflamm. of cartilages, case report (Pol))

CIA-RDP86-00513R001756720012-0" APPROVED FOR RELEASE: 03/14/2001

TRONCZYNSKI, M.

GLOKSIN, W.; REDLICH, F.; TRONCZYNSKI, M.

Treatment of diphtheria with aureomycin. Pediat. polska 28 no.7:723-727 July 1953. (CIML 25:4)

1. Of the Second Pediatric Clinic (Head--Prof. F. Redlich, M.D.) of Lods Medical Academy.

TRONCZYNSKA, Jadwiga; SOBOTKOWSKI, Kazimierz

Anatomical conditions for the development of esophageal voice after laryngectomy. Otolaryng. Pol. 19 no.2:215-220 '65.

1. Z Kliniki Otolaryngologicznej Akademii Medycznej w Lodzi (Kierownik: prof. dr. med. A. Radziminski) i z Zakladu Radiologii Akademii Medycznej w Lodzi (p.o. Kierownika: dr. med. K. Sobotkowski).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720012-0"

A TOTAL PRODUCTION OF THE PROPERTY OF THE PROP

TRONCZYNSKA, Jadwiga

Comparative studies of bone conduction audiometry. Otolaryng. Pol. 19 no.1:77-82 '65.

1. Z Kliniki Otolaryngologicznej Akademii Medycznej w Lodzi (Kierownik: prof. dr. A. Radziminski).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720012-0"

TRONCZYNSKI, M.; STRUMILLO, B.

Attempted therapy of malnutrition in infants and children with the preparation hepafort. Pediat. polska 31 no.4:435-437 Apr 56.

1. Z II Kliniki Chorob Dzieciecych A.M. w Lodzi Kierownik: prof. dr. med. Fr. Redlich, Lodz, Armii Czerwonej 15.

(LIVER EXTRACTS, therapeutic use, inf. nutrition disord. & malnutrition in child, liver hemopietic factor with vitamin B12 (Pol))

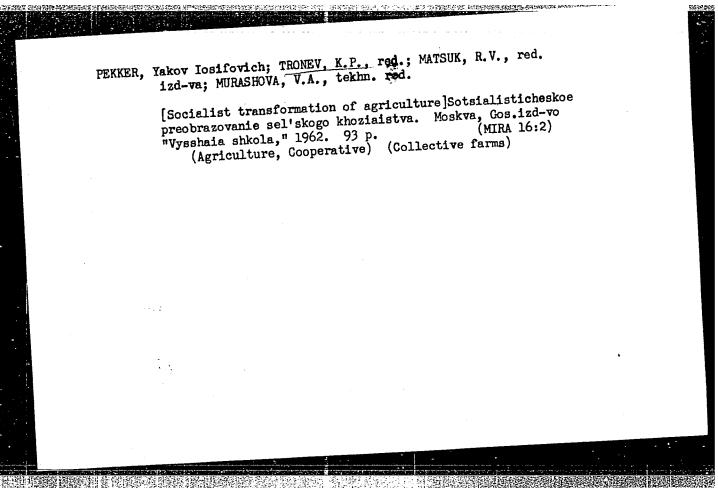
(INFANT NUTRITION DISORDERS, therapy, liver hemopoietic factor with vitamin B₁₂ (Pol))

(DEFICIENCY DISEASES, in infant and child, ther., liver hemopoietic factor with vitemin B_{12} (Pol))

(VITAMIN B₁₂, therapeutic use inf. nutrition disord. & malnutrituin in child., with liver hemopoietic factor (Pol))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720012-0"

THONE RUMAROV, DAN. v. 51, n. 3, 1946, p. 217-220



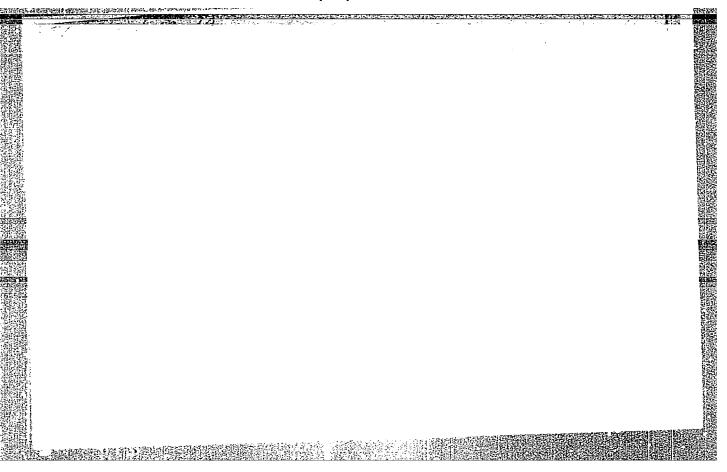
KHUDOKORMOV, Georgiv Mikolayevich; TRONEV, K.P., red.; MATSUK, R.V., red. izd-va; GOROKHOVA, S.S., tekhn. red.

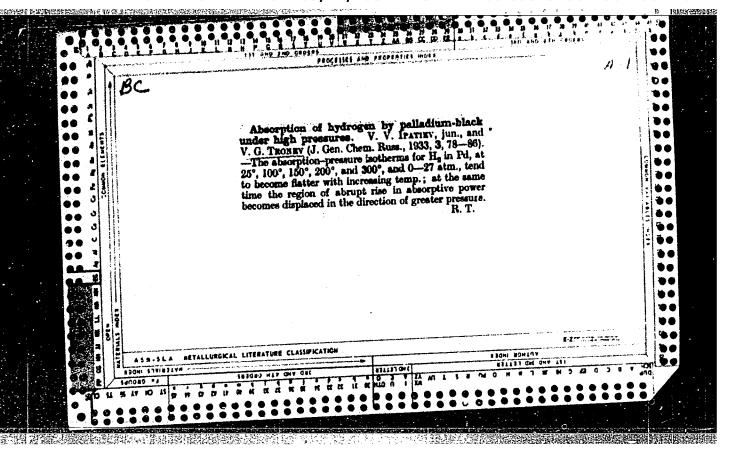
[Commodity production and the law of value under socialism]
Tovarnoe proisvodstvo i zakon stoimosti pri sotsializme.
Tovarnoe proisvodstvo "Vysshaia shkola," 1962. 110 p.

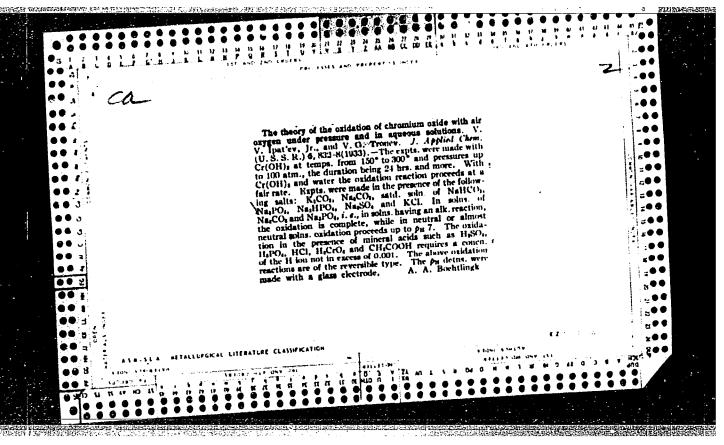
[Koskva, Gos. izd-vo "Vysshaia shkola," 1962. 110 p.

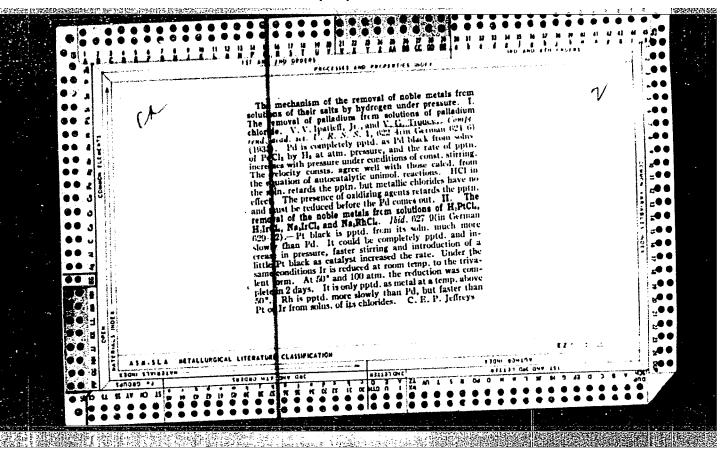
[Russia—Manufactures]

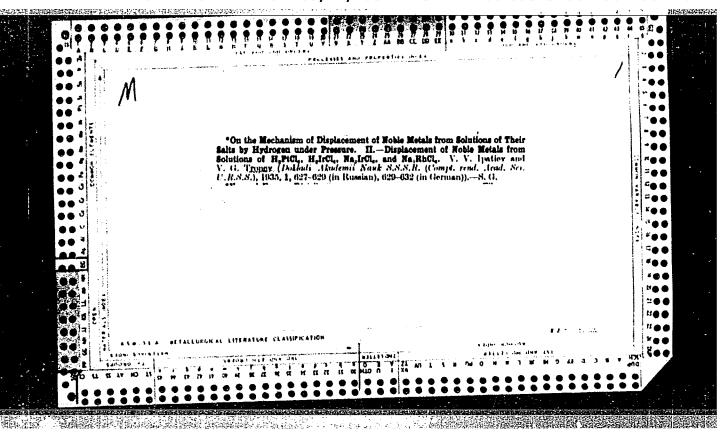
(Value)

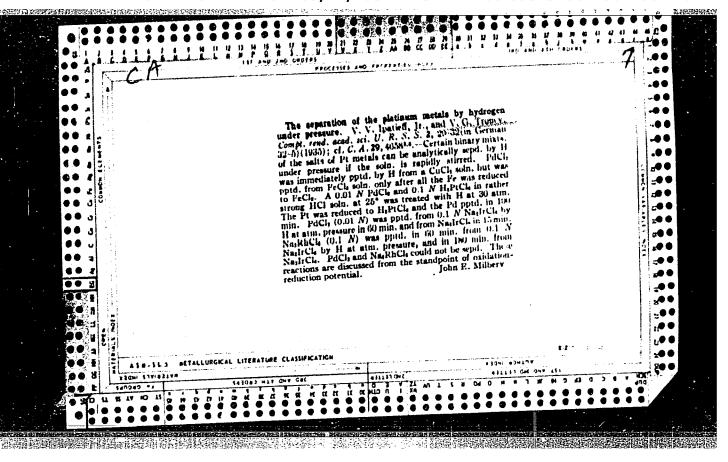


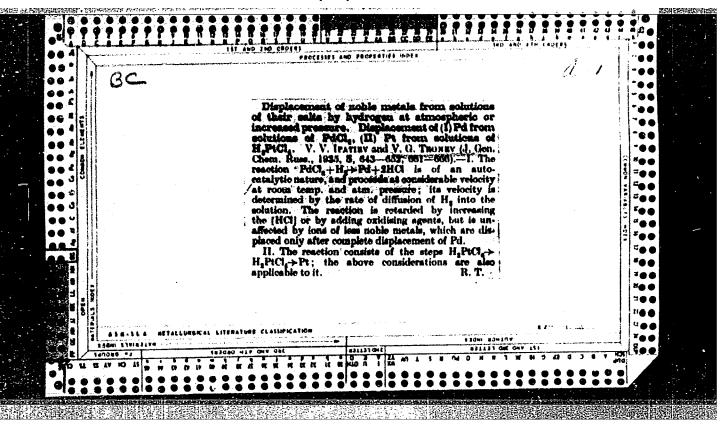


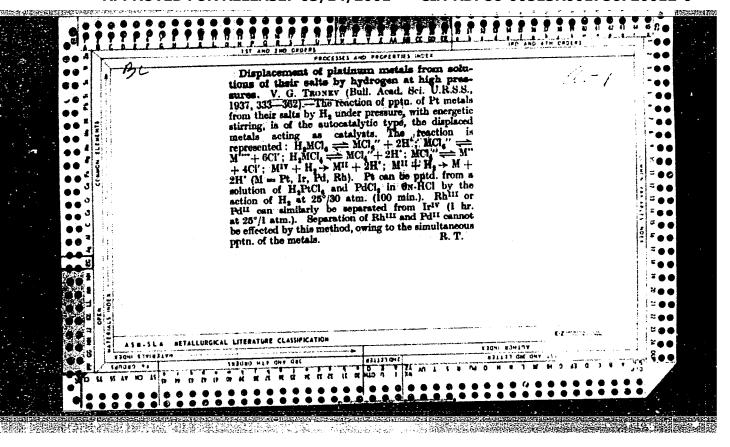


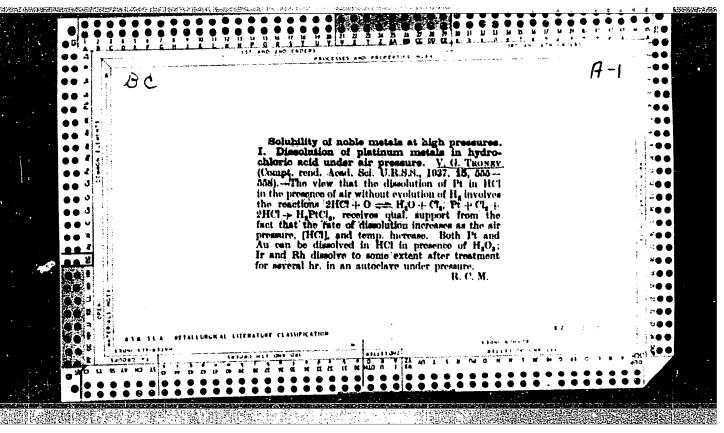


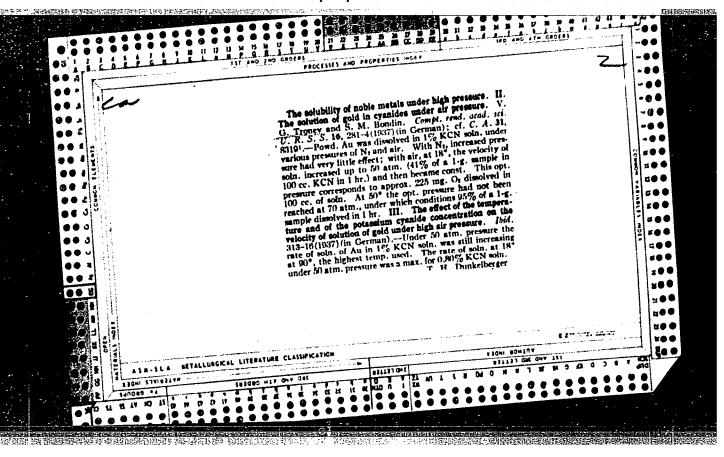


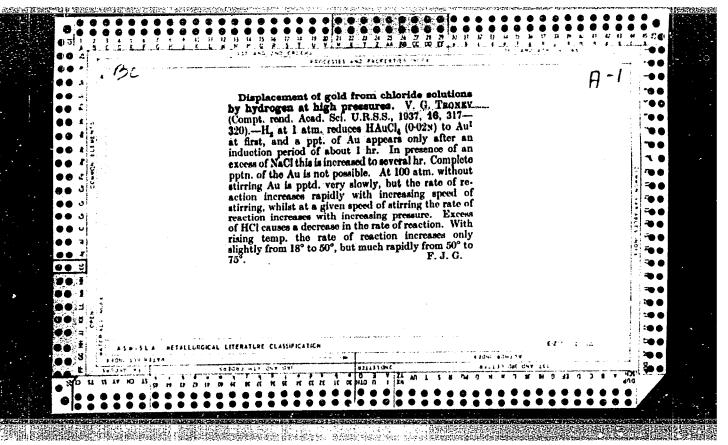


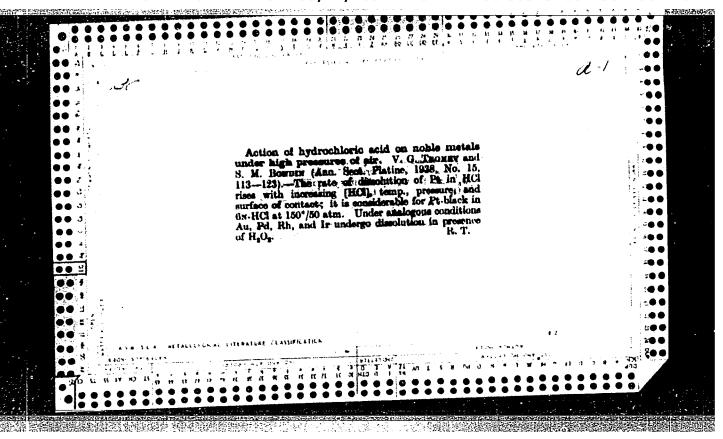


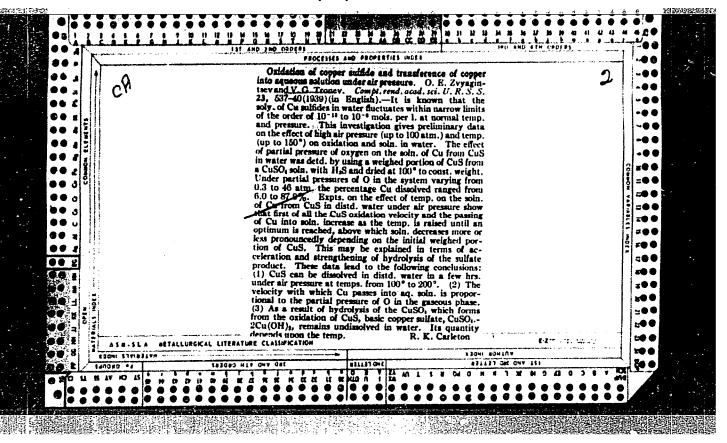


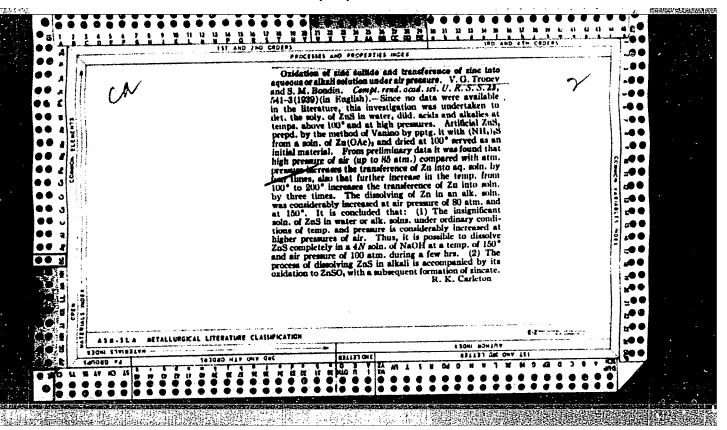












PA 30T9

TRONEY, V. G.

USER/Chemical Industry Prossure, Righ Dec 1946

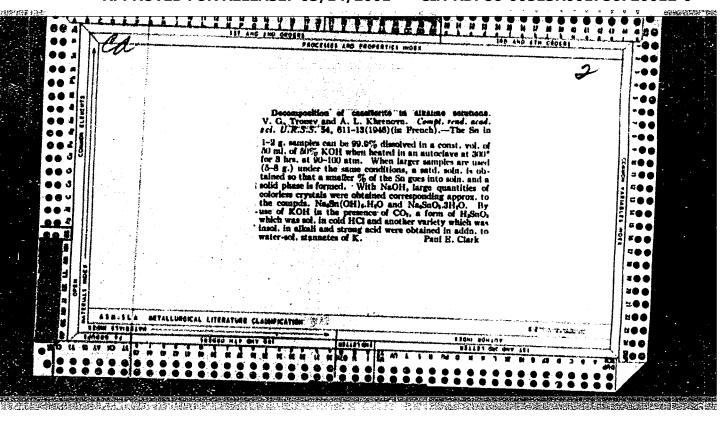
"High Pressure in Inorganic Chemistry," V. G. Tronev, Doctor of Chemistry, 3 pp

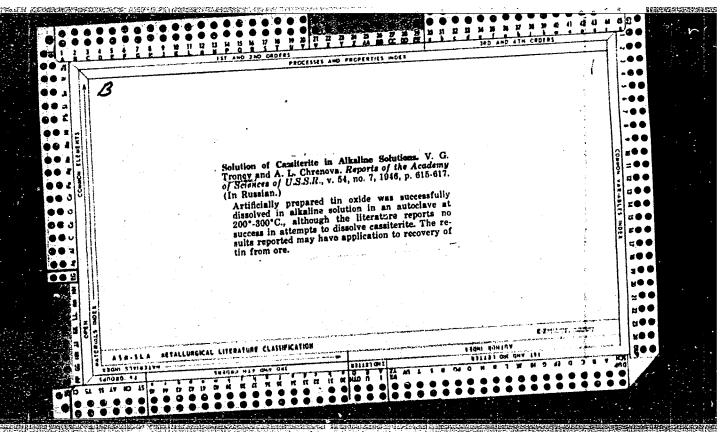
"Nauka i Zhizn'" No 11/12

High pressure apparatus is in wide use in power and chemical industries of the USSR. Therefore, the new Five-Year Plan calls for the development of the production of high pressure compressor and chemical apparatuses. The article shows the role of high pressure in the development of the Five-Year Plan and considers some of the attainments of science in this field.

30T9

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720012-0"

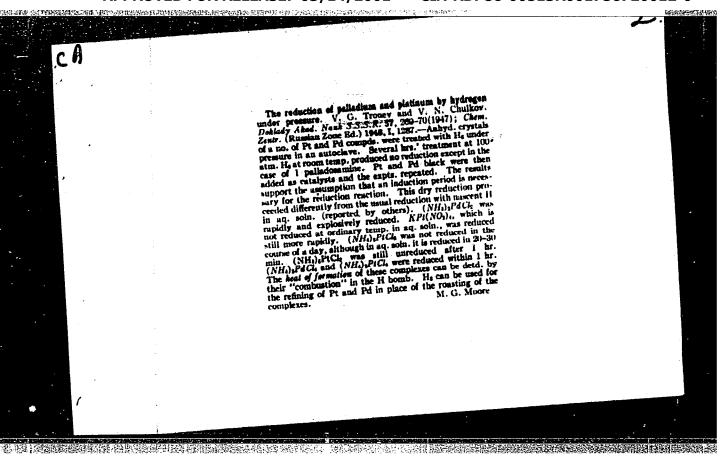




THOMEY, V.G., doktor khimicheskikh nauk.

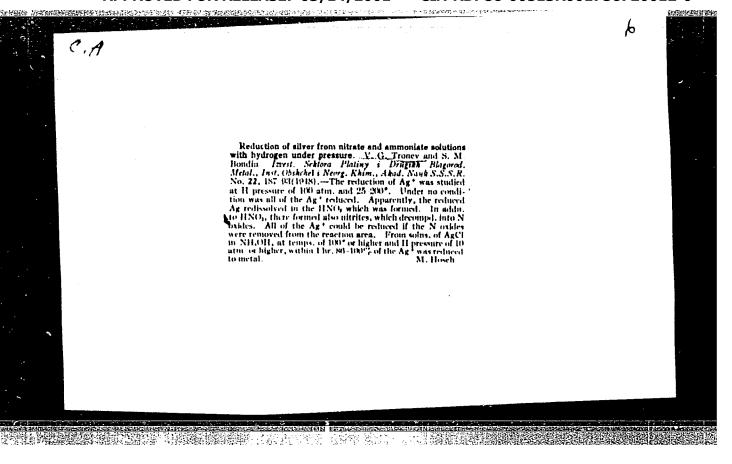
Chemistry in the high pressure and high temperature steam technology. Nauka i zhizn' no.8:2-4 Ag '47. (MLRA 9:5)

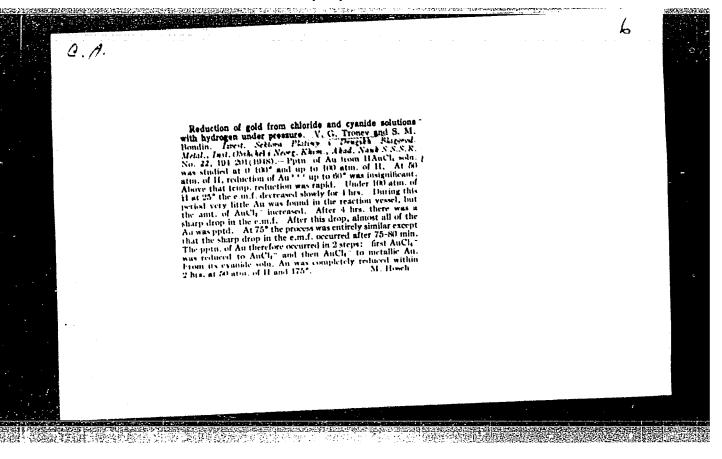
(Boilers)



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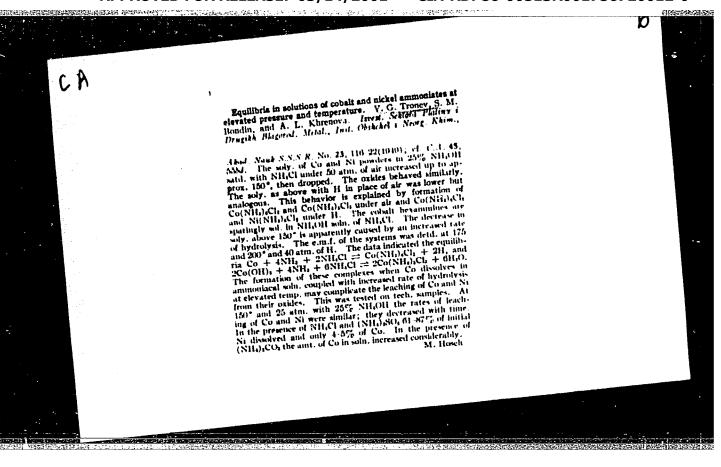




TRONEV, V.			нре	reacti	Tok Al	Problem of the or	
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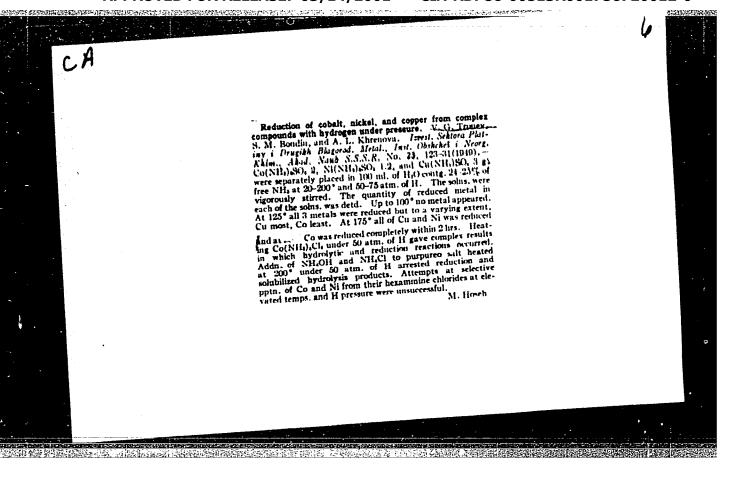
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TRONEV, V. G.

PA 234T16

USSR/Chemistry - Rhenium Compounds

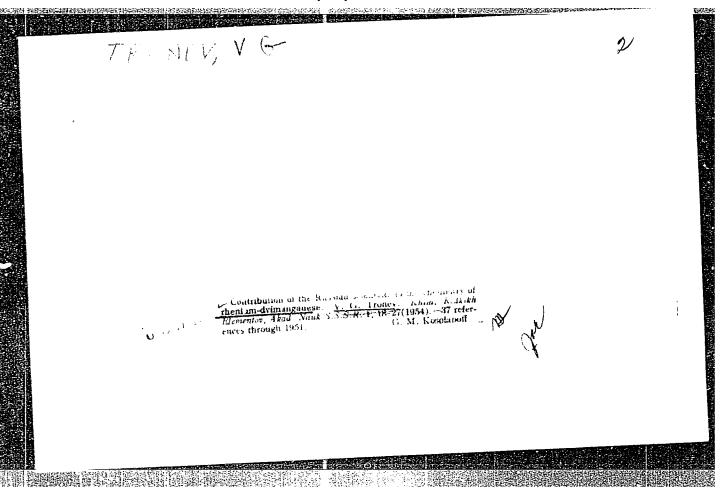
1 Sep 52

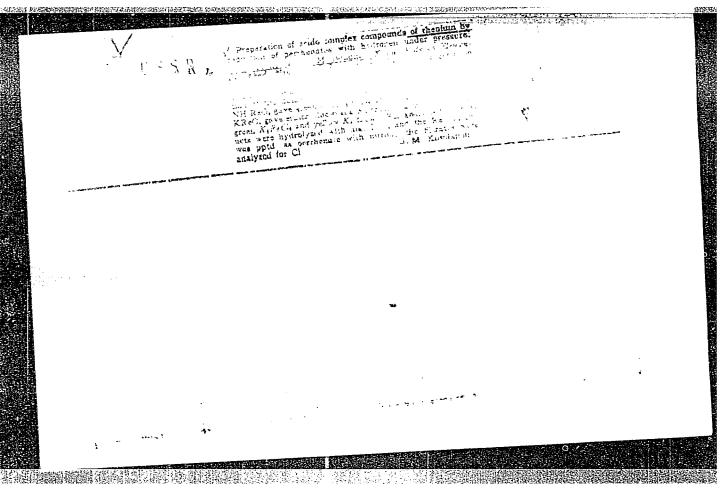
"The Use of I. I. Chernyayev's Principle of Transinfluence in the Synthesis of Complex Compounds of Rhenium in Nonaqueous Solutions," V. G. Tronev, S. M. Bondin

"Dok Ak Nauk SSSR," Vol 86, No 1, pp 87-90

(NH₄) ReCl₄, prepd by reducing (NH₄) ReCl₆, was treated with pyridine in an acetone soln. Two isomers of RePy₂Cl₂ resulted: the cis isomer, having a grayish-green color, and the trans isomer, having a light green color. Presented by Acad I. I. Chernyayev 28 Jun 52.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720012-0"





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GRINBERG, A.A. (Leningrad); BABATEVA, A.V. (Moscow); YATSIMIRSKIY. K.B.

(Ivanovo); GORMYKIN, V.I. (Moscow); BOLIY, G.B. (Moscow); KIAL-

(EOY, Ya.A. (Kiyev); KASEIIN, M.M. (Moscow); KERBOV, B.M. (Moscow);

(GEN'MAN, A.D. (Moscow); FEDDROV, I.A. (Moscow); MANSIMYUK, Ye.A.

(Leningrad); VOL (KENSITEYN, M.V. (Leningrad); ZHDANOV, G.S. (Moscow);

(Leningrad); TROITSKAYA, A.D. (Kazan); KLOCHKO, M.A. (Moscow);

(Dhepropetrovsk); TROITSKAYA, A.D. (Kazan); KLOCHKO, M.A. (Moscow);

(BABATEVA, A.V.; TRONEV, V.G. (Moscow); RUBINSHTETN, A.M. (Moscow);

CHERNYATEV, I.I., GRINBERG, A.A.; TANANAYEV, I.V.

Explanation of the transeffect. Izv. Sekt.plat.i blag.mst. no.28;

56-126 '54.

(Compounds, Gomplex) (Flatinum)
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-TRONEY, V.G.

USSR/Chemistry - Synthesis

Card 1/1

Pub. 22 - 27/49

Authors

: Tronev. V. G., and Shumilina, M. Z.

Titlo

Synthesis of Pt-hexaammoniates at increased ammonia pressure

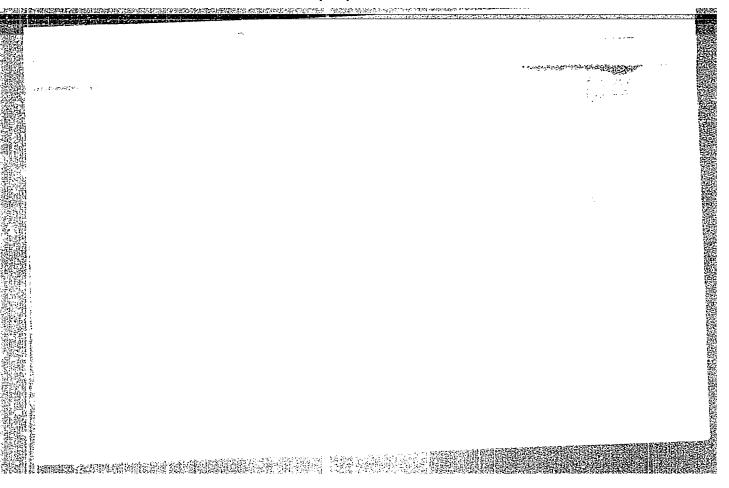
Periodical : Lok, AN SSSR 101/3. 499-501. Mar 21, 1955

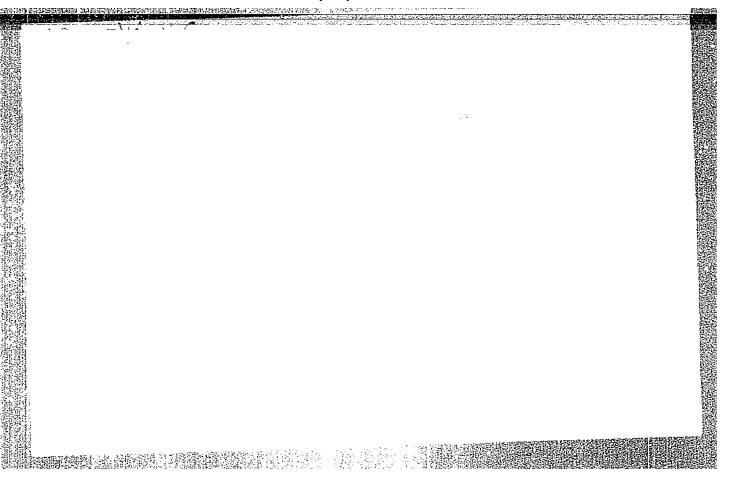
Abstract

! The synthesis of Pt-hexammoniates with the aid of increased pressure of gaseous ammonia is described. The difficulties involved in the conversion of pertarmines into hexammines are explained by the West trans-effect of the ammonie. The use of methylamine and other similar squenum for the displacement of the D1-atom is aqueous ammohis solutions is recommended for the purpose of obtaining better results. Six references: _ USSR, 1 USA and 1 German (1882-1952).

Institution : Acad. of Sc., USSR, The N. S. Kurnakov Inst. of Gen. and Inorg. Chem.

Presented by : Academician I. I. Chernyaev, October 14, 1954





CIA-RDP86-00513R001756720012-0 "APPROVED FOR RELEASE: 03/14/2001

TRONCY, V. G.

USSR/Inorganic Chemistry. Complex Compounds

Abs Jour

: Ref Zhur - Khimiya, No. 8, 1957, 26436

Author

Tronev, V.G., Chibireva, M.Ye.

Inst Title

Volatility of Germanium in Flow of Gases.

Orig Pub

Zh. neorgan. khimii, 1956, 1, No. 10,

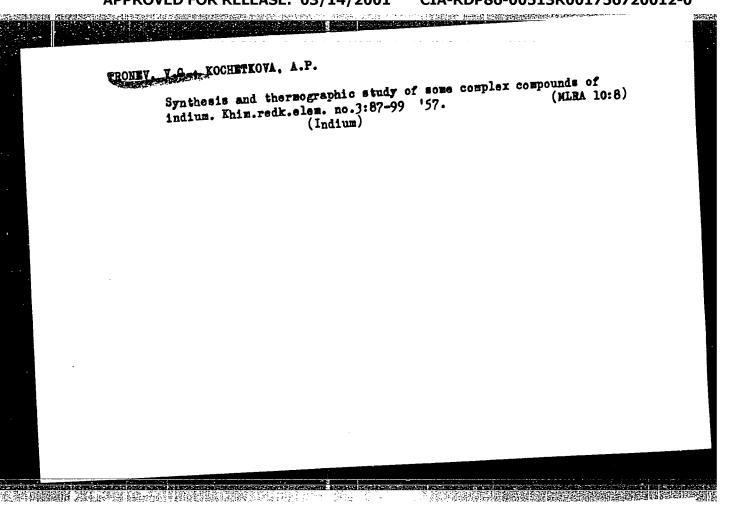
2278 - 2282.

Abstract

It is shown that powdered Ge is sublimated to 94-95% at 800 to 850° in a flow of N_2 containing 1% of O_2 , or in a flow of Ar containing 0.25% of N_2 and 0.03% of O_2 . The sublimate contains 78% of Ge and up to 5% of N. The x-ray photograph of the sub-limate indicates the presence of lines corresponding to a mixture of metallic Ge and

GeO2.

Card 1/1



ROCHETKOVA, A.P.: THONEY, V.G.

Heat resistance of amino compounds of gallium, indium, and thallium.

Heat resistance of amino compounds of gallium, indium, and thallium.

(MIRA 10:12)

Zhur.neorg.khim. 2 no.9:2043-2048 S '57.

Zhur.neorg.khim. (Indium) (Thallium) (Amino compounds)

TRONEY, V.O.; GRIGOROVICH, A.N.

Composition and thermal stability of some ammoniates and amino compounds of selenium and tellurium tetrachlorides. Zhur. neorg. (MIRA 11:3) c. 2 10:2400-2405 0 '57. khim. 2 (Ammines) (Selenium chloride) (Tellurium chloride)

78-3-4-30/38 Kotel'nikova, A. S., Tronev, V. G. Investigation of the Complex Compounds of Bivalent Rhenium AUTHORS: (Issledovaniye kompleksnykh soyedineniy dvukhvalentnogo TITLE: reniya) Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 4, pp. 1008-1027 PERIODICAL: (USSR) The Complex compounds of rhenium-II were produced and investigated. From the experimental material follows: that by the reduction of KReO in concentrated hydrochloric acid solution with gaseous hydrogen and under a pressure of from ABSTRACT: 100 - 110 atmospheric excess pressure and at 300°C solutions can be produced in which rhenium exists in a bivalent form. From the hydrochloric acid solutions of menium-II with acetone solution the following products were isolated by crystallization: ReCl₂·4H₂O and H₂ReCl₄·2 H₂O. Thermographic analyses were carried out with these compounds. ReCl₂ · 4 H₂O has two endothermal effects at 150°C and 398°C. ${\rm H_2^{ReCl}_4}$. 2 ${\rm H_2^0}$ 1c ses water at 150°C and with a further rise Card 1/4

78-3-4-30/38

Investigation of the Complex Compounds of Bivalent Rhenium

of temperature it decomposes forming oxidation products.

ReCl₂ · 4 H₂O on heating to 150 C also looses 2 mol water forming ReCI 2 H 20. In these two compounds the water can, based on the experimental results, be regarded as coordinatively bound. The formula is given as follows:

 $\begin{bmatrix} \text{ReCl}_2 & (\text{H}_2\text{O})_2 \end{bmatrix} & 2 & \text{H}_2\text{O} \\ \begin{bmatrix} \text{ReCl}_2 & (\text{H}_2\text{O})_2 \end{bmatrix}$

 ${\rm H_2ReCl_2}$. 2 H₂O undergoes some intermediate compounds with the beginning of hydrolysis; these intermediate compounds were also isolated in solid form: ${\rm H_2[Re(OH)_3Cl]}$, ${\rm H_2[Re(OH)_4]}$

 ReCl_2 , 4 $\operatorname{H}_2\mathrm{O}$ and ReCl_2 , 2 $\operatorname{H}_2\mathrm{O}$.

Also some acidous salts were isolated in solid form; KHReCl . H2O, KHReCl4, NH4HReCl4 . H2O and NH4HReCl4, (PyH)HReCl4. In the treatment of H₂ReCl₄ 2 H₂O PyH HReCl₄ forms with pyridine in acidous medium. This compound can easily be converted into [ReO₂Py₄ Cl in the evaporation in air, Re-II transforming into Re-V on this occasion. For the purpose of separating bivalent rhenium from rhenium

Card 2/4

78-3-4-30/38

Investigation of the Complex Compounds of Bivalent Rhenium

compounds of other valence the extraction method from aqueous hydrochloric solutions with organic solvents was used. In this it was found that the best extraction of Re² can be carried out with such organic solvents in which C 0 occurs; e.g. pinacoline, acetophenone, methylacrylate, dimethylphthalate and others. Some bivalent rhenium compounds were isolated with methyl

alcohol. In the reaction of H2ReCl4. 2 H2O in glacial acetic acid solution the following compounds form on addition of methyl alcohol:

ReCl₂ · 4 CH₃COOH

ReCl₂ . 2 CH₃COOH . H₂O ReCl₂ . CH₃COOH . H₂O ReCl₂ . CH₃COOH

On the action of ReCl2 . CH3COH with pyridine a solid substance of the following composition is formed: ReCl2.CH3

Card 3/4

The thermographic investigations of the derivatives of

78-3-4-30/38

Investigation of the Complex Compounds of Bivalent Rhenium

H_ReCl_. 2 H_O and the acidous salts NH_HReCl_ and (Py)HReCl_4 showed that these compounds are thermally stable and decomposable only at 400 = 430°C. From the bivalent compounds of rhenium with acetic acid ReCl_.CH_COOH shows the greatest stability on heat treatment. It decomposes at not less than 300°C. There are 9 figures, 11 tables, and 14 references, 8 of which are Soviet.

SUBMITTED:

October 2, 1957

Card 4/4

THE ARMONISMENT OF

507/ 78-3-7-44/44 Tronev. V.G. On the Investigations and Production of Rare Elements in the AUTHOR: German Democratio Republic (Ob issledovanii i proizvodstve redkikh elementov v Germanskoy Demokraticheskoy Respublike) TITLE: Zhurnal neorganicheskoy khimii, 1958, Vol. 3, Nr 7, pp. 1717-1718 PERIODICAL: In the German Democratic Republic much intensive research work (USSR) is being carried out with respect to the working of mineral salts as well as within the field of the chemical tachnology of rare ABSTRACT: chemical elements, especially rubidium, cesium, germanium, selenium, Technological work with respect to the separation of cesium-rubidium from natural salts and concentrates was carried out. Investigations in connection with the production of rare earths from apatite concentrates with a rare earth content of 0.9% are carried out by basic precipitation, by means of which an enrichment of the rare earths of up to 96% is attained. Next, certies and yttrium earths are separated efficaciously by the application of the method of ion exchange. Great interest was caused also by Card 1/2

On the Investigations and Production of Rare Elements in the German Democratic Republic

50V/78-3-7-44/44

the working of selemium, tellurium, germanium, and especially rhemium, by means of complex compounds. A new technological operational scheme for the working of copper anode mud for the production of noble metals and large quantities of selenium was set up. The production of the purest type of selenium, germanium, and silicon, which are being widely used for the production of semiconductors, is also described.

As Income a command to some of Aspeced. The second of the

- 1. Rare earth elements--Analysis 2. Rare earth elements--Production
- 3. Rare earths-Analysis 4. Rare earths--Production

Card 2/2

USCOMM-DC-55722

CIA-RDP86-00513R001756720012-0" APPROVED FOR RELEASE: 03/14/2001

AUTHORS:

Tronev, V. G., Lebedev, V. G.

sov/78-3-10-8/35

TITLE:

The Synthesis of the Compounds of Germanium Tetrachloride With Some Nitrogenous Addenda (Sintez soydineniy tetrakhlorida ger-

maniya s nekotorymi azotsoderzhashchimi addendami)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 10, pp 2272-2275

(USSR)

ABSTRACT:

The synthesis of GeCl_4 with oxyquinoline, pyridine and ethylene

diamine was carried out. The compounds have the following

 $GeCl_{4} \cdot 4 C_{2}H_{8}N_{2}$ (I), $GeCl_{4} \cdot 4 C_{9}H_{7}NO$ (II), $GeCl_{4} \cdot 2 C_{5}H_{5}N$ (III).

The compound $GeCl_2(C_9H_6NO)_2$ (IV) is produced in the pyrolysis of the compound GeCl₄.4 C₉H₇NO. The compound GeCl₂(C₉H₆NO)₂.2NH₃

(V) is produced in the interaction of $GeCl_2(C_9H_6NO)_2$ with dry,

gaseous ammonia at a temperature of 100°C.

The coordination structure of the above-mentioned compounds was

indicated:

Card 1/3

SOV/78-3-10-8/35
The Synthesis of the Compounds of Germanium Tetrachleride With Some Nitrogenous Addenda

Card 2/3

507/78-3-10-8/35 The Synthesis of the Compounds of Germanium Tetrachloride With Some Nitrogenous Addenda

There are 1 table and 7 references, 1 of which is Soviet.

SUBMITTED:

May 16, 1958

Card 3/3

CIA-RDP86-00513R001756720012-0" **APPROVED FOR RELEASE: 03/14/2001**

507/78-3-10-9/35 Tronev, V. G., Babeshkina, G. K. AUTHORS: I. Chloro Rhenates of Ammonium, Pyridine, Aniline and Ethylene TITLE: Diamine (I. Khlororenaty ammoniya, piridina, anilina i etilendiamina) Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 10, pp 2276-2280 PERIODICAL: (USSR) In the present paper the synthesis and analysis of some proper-ABSTRACT: ties, particularly of the thermal stability of the compounds $(NH_4)_2$ $[ReCl_6]$, $(PyH)_2$ $[ReCl_6]$, (EnH_2) $[ReCl_6]$, $(AnH)_2$ $[ReCl_6]$, were carried out. The complex compounds of the A2ReX6 type were synthetized with ethylene diamine, pyridine and aniline. It was shown by the determination of electric conductivity and the exchange reactions that complexes with the anion (ReCl₆)2-, combined with the respective amine ion, are produced in these solutions. These salts are regarded as amine salts of the hexachloro rhenic acid. The thermograms of (NH₄)₂ ReCl₆, EnH₂ ReCl₆, (AnH) 2 ReCl6, (PyH) ReCl6 were taken. It follows from the thermograms that $(NH_4)_2$ [ReCl6] reaches the highest degree of Card 1/2

SOV/78-3-10-9/35 I. Chloro Rhenates of Ammonium, Pyridine, Aniline and Ethylene Diamine

thermal stability at 462°C . According to thermal stability, the complex compounds of quadrivalent rhenium are classified as follows: $(\text{NH}_4)_2$ $[\text{ReCl}_6] \rightarrow (\text{EnH}_2)$ $[\text{ReCl}_6] \rightarrow (\text{PyH})_2$ $[\text{ReCl}_6] \rightarrow (\text{AnH})_2$ $[\text{ReCl}_6]$ up to 426° 376° 300° 294° Metallic rhenium of highest purity is obtained in the thermal decomposition of ammonium chloro rhenate in the nitrogen current. Then it is completely free from oxygen compounds.

There are 6 figures and 15 references, 4 of which are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences, USSR)

SUBMITTED: May 5, 1958

Card 2/2

AUTHORS:

Tronev, V. G., Babeshkina, G. K.

SOV/78-3-11-6/23

SALE STRUCKED OF STRUCK STRUCK

TITLE:

II. Production and Properties of Rhenium Dipyridine Tetrachloride (II. Polucheniye i svoystva dipiridintetrakhlorida

reniya)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 11,

pp 2458 - 2461 (USSR)

ABSTRACT:

A synthesis for the production of rhenium dipyridine tetrachloride was investigated. (PyH) [(ReCl₆)] was used as initial compound. The produced rhenium dipyridine tetrachloride has the following composition:

> %Re - 38,30 Cl - 29,16 N - 5,76

This analysis corresponds to the composition [RePy2Cl4].

The homogeneity of the compound was confirmed by the crystalcptic analysis. Several properties as well as the thermal stability of the rhenium dipyridine tetrachloride were investigated. The determinations of the solubility,

Card 1/3

II. Production and Properties of Rhenium Dipyridine SOV/78-3-11-6/23 Tetrachloride

electric conductivity, and magnetic properties showed that the compound [RePy2Cl4] belongs to the group of the nonelectrolytes and is similar to the corresponding platinum-(IV),-cis, and trans compounds. No well defined products are produced in the case of an interaction between [RePy2Cl4] and ammonia, nitrite, and oxalate, at room temperature and at higher temperature. In the case of an interaction between [RePy2Cl4] and ethylene diamine in aqueous solution [ReO2En2]Cl is produced. Rhenium is pentavalent in this compound and the latter is diamagnetic. The pentavalence of rhenium in this compound was confirmed by the method of Noddak. There are 2 figures and 8 references, 4 of which are Soviet.

Card 2/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720012-0"

II. Production and Properties of Rhenium Dipyridine

SOV/78-3-11-6/23

Tetrachloride

ASSOCIATION:

'thimii im.N.S.Kurnakova Institut obshchey i neorganicheskoy

Akademii nauk SSSR (Institute of General and Inorganic

Chemistry imeni N.S.Kurnakov, AS USSR)

SUBMITTED:

May 5, 1958

Card 3/3

CIA-RDP86-00513R001756720012-0" **APPROVED FOR RELEASE: 03/14/2001**

5(3)

€t an Magair

SOV/26-59-10-20/51

AUTHOR:

Tronev, V.G., Doctor of Chemical Sciences

HURINGER CLEARING SEARCH SEARC

TITLE:

The Use of Gases at Elevated Pressure for the Synthesis

of New Inorganic Compounds

PERIODICAL:

Priroda, 1959, Nr 10, pp 89-91 (USSR)

ABSTRACT:

Gases at elevated pressure are widely used in organic chemistry and technology. However, there are only a few samples of their use for the synthesis of inorganic compounds. Research work is carried out in the laboratory of high pressure annexed to the Institute of Genetal and Inorganic Chemistry imeni N.S. Kurnakov of the AS USSR. A.S. Kotel'nikova, G.K. Babeshkina and the author used hydrogen at elevated pressure to obtain metals of high purity or compounds of unusual valence.

metals of high purity or compounds of unusual valence. In the research work of A.N. Grigorovich and A.P. In the research work of a.N. Grigorovich and A.P. Kochetkova, ammonia is used to get water-soluble, but keet-resistant, complex compounds. The use of hydrogen at elevated pressure will originate new oxidizing reactions. According to information obtained from N.N.

Card 1/2

SOV/26-59-10-20/51

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The Use of Gases at Elevated Pressure for the Synthesis of New Inorganic Compounds

Semenov, the possibility of producing active atoms of hydrogen is not very likely at normal temperature and pressure conditions. In cooperation with V.N. Chulkov and A.L. Khrenova, the authors have found that under pressure the reactions of sulphur, selenium and liquid ammonia on hydrogen will take an accelerated course at room temperature. For this purpose, a laboratory autoclave with a magnetic mixer and a device for recording the heat effects on the Kurnakov pyrometer is used (Figure 1). There is 1 photograph and 1 graph.

ASSOCIATION:

Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova Akademii nauk SSSR/Moskva (Institute of General and Inorganic Chemistry imeni N.S. Kurnakov of the AS USSR/Moscow)

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720012-0"

5 (2) AUTHORS: Miao Ching-sheng, Tronev, V. G.

SOV/78-4-8-11/43

TITLE:

On the Composition and the Thermal Stability of the Acido-

complex Compounds of Re [11] (O sostave i termicheskoy ustoychi-

vosti atsidokompleksnykh soyedineniy Re III)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 8,

pp 1768 - 1774 (USSR)

ABSTRACT:

Hitherto trivalent rhenium has been assumed (Refs 1-5) to form acido complex compounds with the coordination number 4 or 6: [ReCl₄] and Me₃ [ReCl₆]; respectively. No publication data

are available on the transformation of Re III -compounds with the coordination number 4 into compounds with the coordination num-

ber 6. Experiments carried out by the authors to obtain

Me3 ReCl according to the methods described in publications failed. The authors report on the composition, properties and thermal stability of NH4ReCl4, RbReCl4, and CsReCl4. The rhen-

Card 1/3

ium metal serving as initial material was produced from ammonium

On the Composition and the Thermal Stability of the SOV/78-4-8-11/43 Acido-complex Compounds of Re^{III}

perrhenate by reduction with hydrogen in the autoclave; it was then chlorinated with chlorine gas and the obtained ReCl₅ was decomposed in nitrogen into ReCl₃. The analysis of the hydrochloric solution of ReCl₃ is given in table 1. By the addition of RbCl or CsCl the corresponding complex salts were obtained. The production of KReCl₄ could not be carried out as is mentioned in reference 12. The authors obtained, however, NH₄ReCl₄. Table 2 shows the analysis of these complex salts. The ammonium salt is similar to the salts RbReCl₄ and CsReCl₄ already known with respect to its crystal form, (Fig 1), diamagnetism, and thermal stability. The determination results of magnetic susceptibility are given in table 3. The absolute values agree with those of reference 12, however, not their signs. Compound Me₂ReCl₆ could not be produced from compound MeReCl₄. The effect of concentrated hydrochloric acid in the autoclave under nitrogen and hydrogen pressure led at 250° to the disproportion-

Card 2/3

On the Composition and the Thermal Stability of the SOV/78-4-8-11/43 Acido-complex Compounds of Re^{III}

ation of the MeReCl₄ compounds (Tables 4,5) according to reference 10 according to the scheme $9 {\rm Re}^{\rm III} \longrightarrow 6 {\rm Re}^{\rm II} + 2 {\rm Re}^{\rm IV} + {\rm Re}^{\rm VII}$. Also the reduction of the perrhenates with iodides in hydrochloric solution yielded only ${\rm Re}^{\rm IV}$ compounds (Tables 6,7). Figures 2-6 show the thermograms of ${\rm NH}_4$ -, ${\rm Rb}$ - and ${\rm Cs}$ - ${\rm ReCl}_4$ salts as well as of ${\rm ReCl}_3$ and $({\rm NH}_4)_2 {\rm ReCl}_6$. The heating of MeReCl₄ in dry nitrogen leads to the decomposition into ${\rm ReCl}_3$, metallic rhenium and ${\rm Me}_2 {\rm ReCl}_6$. The thermal stability decreases with the increasing radius of the cation (Table 8). There are 6 figures, 8 tables, and 13 references, 4 of which are Soviet.

SUBMITTED:

July 11, 1958

Card 3/3

5(2) AUTHORS:

Tronev, V. G., Belyakov, I. M.

TITLE:

Experiments of Synthesizing Selenamine Compounds by Oxidation of Selanium by Oxygen Under Pressure in the Presence of Liquid Ammonia (Opyty sinteza selenaminovykh soyedineniy okisleniyem selene kislenedem ped devleniyem v prisutstvii

SOY/78-4-8-39/43

zhidkogo ammiaka)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol. 4, Nr. 8,

pp. 1932-1935 (USSR)

ABSTRACT:

In a previous publication (Ref 1) it was pointed to the possibility of obtaining sulphamine compounds by exidation of elementary sulphur by means of oxygen under pressure in the presence of liquid ammenia. It could be assumed that selenium would react in similar way. The existence and the composition of selenamine compounds has hitherto not been explained. Elementary selening was heated in an autoclave with liquid ammonia under an oxygen pressure from 100 at to 50 to 100° during 5 to 6 hours. After the removal of the gases which had not entered the reaction the mixture of selenium and oxidation products was extracted by means of an ammonia solution, liquid

Card 1/2

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720012-0"

SOV/78-4-8-39/43 Experiments of Synthesizing Selenamine Compounds by Oxidation of Selenium by Oxygen Under Pressure in the Presence of Liquid Ammonia

> ammenia or organia solventa. The extraction was rendered difficult by the easily soluble ammonium nitrate which had formed. From the analyses and the thermograms (Fig 1.) conclusions are drawn to the formation of a compound of the form NH(SeO3NH4)2. Moreover, a red explosive formed, probably selenium nitride. There are 2 figures and 6 references, 3 of which are Soviet.

ASSOCIATION:

Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova

Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni.N. S. Kurnakov of the Academy of Sciences,

USSR)

SUBMITTED:

March 10, 1959

Card 2/2

MYAO TSIN-SHEN, TRONEV, V.G.

Synthesis and thermal decompositions of the tetraamine and amino complex compounds of rhenium trichloride. Zhur. neorg. khim. 5 no.4:861-869 Ap 160. (MIRA 13:7) (Rhenium compounds)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720012-0"

TRONEY, V.G.; BEKHTLE, G.A.; DAVIDYANTS, S.B.

Chlorination of rhenium sulfide with gaseous chlorine. Trudy AH
Tadzh. SSR 84:105-119 '59. (MIRA 13:3)

(Rhenium sulfide) (Chlorination)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720012-0"

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TRONEY, V.G.: BEKHTLE, G.A.; DAVIDYANTS, S.B.

Chlorination of rhenium sulfide with a mixture of chlorine and ciygen.
Trudy AN Tadzh. SSR 84:121-127 '59. (MIRA 13:3)

(Rhenium sulfide) (Chlorination)

TRONEY, V.G.; BASITOVA, S.M.; BEKHTLE, G.A.; DAVIDYANTS, S.B.

Behavior of rhenium during the chlorination of molybdenite.

Trudy AN Tadsh. SSR 84:129-136 '59. (MIRA 13:3)

(Rhenium) (Molybdenite) (Chlorination)

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ROTKOVA, S.V., starshiy bibliograf; METSATUN'YAN, I.A., bibliograf;
TANANAYEV, I.V., akademik, otv.red.; TRONEV, V.G., doktor khim.
nauk, nauchnyy red.; SPIVAKOVA, E.M., red.; PEREL'MAN, F.M.,
doktor khim.nauk, nauchnyy red.; SPERANSKAYA, Ye.I., kand.khim.
nauk, nauchnyy red.; DEYCHMAN, E.N., kand.khim.nauk, nauchnyy red.;
BASHILOVA, N.I., mladshiy nauchn.sotrudnik, nauchnyy red.; BOL'SHAKOVA, N.K., mladshiy nauchn.sotrudnik, nauchnyy red.; KASHINA, R.S.,
tekhn.red.

[Chemistry of rare elements; bibliographic index of Soviet and foreign literature] Khimiia redkikh elementov; bibliograficheskii ukazatel otechestvennoi i zarubezhnoi literatury. Moskva, Izd-vo Akad.nauk SSSR. No.1. (1951-1954). 1960. 418 p.

(MIRA 13:11)

Biblioteka Otdeleniya khimicheskikh nauk AN SSSR (for Rotkova).
 Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova (for Tronev, Perel'man, Speranskaya, Deychman, Bashilova, Bol'shakova). (Bibliography--Metals, Rare and minor)

Myao Tsin-shen, Tronev, V. G.

s/078/60/005/04/015/040 B004/B007

TITHORS:

TITLE:

The Synthesis and Thermal Decomposition of Tetraammoniacate and the Amino Complex Compounds of Rhenium

Trichloride

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 4, pp 861 - 869

(USSR)

ABSTRACT:

The present paper was intended to provide an answer to the question as to whether complex ammino compounds of Re(III) with the coordinate number 6 exist, or whether these compounds have the coordinate number 4. In order to avoid hydrolysis, the synthesis of the ammino compounds of Re(III) was carried out with dry ReCl 3 and anhydrous NH 3 or anhydrous amines. In this way [Re(NH3)4]Cl3 was obtained, and by precipitation with AgNO3

it was proved that all three chlorine atoms react in the same manner and are therefore not in the inner sphere of the complex. Further, the synthesis of ReCl₃.4C₂H₅NH₂, ReCl₃.4(C₂H₅)₂NH, ReCl₃.3Py.H₂O (Py = pyridine), ReCl₃.4Py, and of the double salt

[RePy4][ReCl30H]3 was described. Figures 1 - 5 and tables 1 - 6

Card 1/2

The Synthesis and Thermal Decomposition of Tetraammoniacate and the Amino Complex Compounds of Rhenium Trichloride 69020 **8/078/60/005/04/015/040 B004/B007**

give the experimental data on the thermal decomposition of these compounds (heating curves and analyses). With respect to their thermal stability, the compounds may be arranged in the following order: ReCl₃.4NH₃ (beginning of decomposition at 345°) > ReCl₃.4C₂H₅NH₂ (320°) > ReCl₃.4(C₂H₅)₂NH (268°) > ReCl₃.4Py (260°). During heating or washing with liquid ammonia, ammonolysis occurs with ReCl₃.4NH₃, accompanied by formation of the amido compounds Re(NH₃)₂(NH₂)₂Cl and Re(NH₃)(NH₂)₃Cl, in which the Re-N-bond remains stable up to 500°. There are 5 figures, 6 tables, and 6 references, 4 cf which are Soviet.

SUBMITTED:

April 22, 1959

Card 2/2

86150 \$/078/60/005/008/023/031/XX B023/B066

5.2620

AUTHORS:

1209, 1273, 1282

Lebedev, V. G. Tronev, V. G.

TITLE:

Complex Compounds of Germanium Halides With Pyridine,

2,2'-Dipyridyl, and 1,10-Phenanthroline

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 8,

pp. 1725-1729

TEXT: The authors studied germanium tetrahalide compounds with heterocyclic amines, viz., pyridine, 2,2'-dipyridyl, and 1,10-phenanthroline. The amino compounds were synthesized as follows: To dissolve the organic amine in anhydrous CCl₄ (concentration ~0.05 mole), such an amount of

germanium halide solution (in the same solvent) was added that the ratio of amine: metal was 1.2-1.3 for 1,10-phenanthroline, 1.2-1.3 for 2,2'-dipyridyl, and 2.4-2.5 for pyridine. The mixture was caused to boil for 1/2 hour under dry conditions. It was then cooled down, and sucked off on a porous glass filter. The precipitate was washed out on the filter with dry CCl_A, then with a small amount of absolute benzene and

Card 1/3

Complex Compounds of Germanium Halides With S/078/60/005/008/023/031/XX Pyridine, 2,2'-Dipyridyl, and 1,10-Phenanthro- B023/B066 line

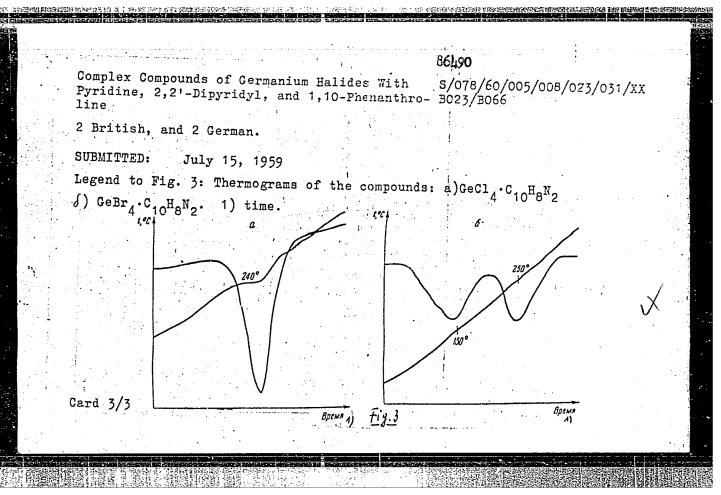
sulfuric ether. The rest of the solvent was put into a vacuum at normal temperature. The solid phase was brought to a constant weight. The yield was 90% referred to germanium, 80% to pyridine, and less to bromides. The resultant substances form white, finely crystalline powders which are hydrolyzable in humid air. These complex compounds might belong to the coordination compounds of the GeH₄.2A type (H - halogen Cl or Br, A - pyridine, 1/2'-dipyridyl, 1/2 1.10-phenanthroline). The authors further

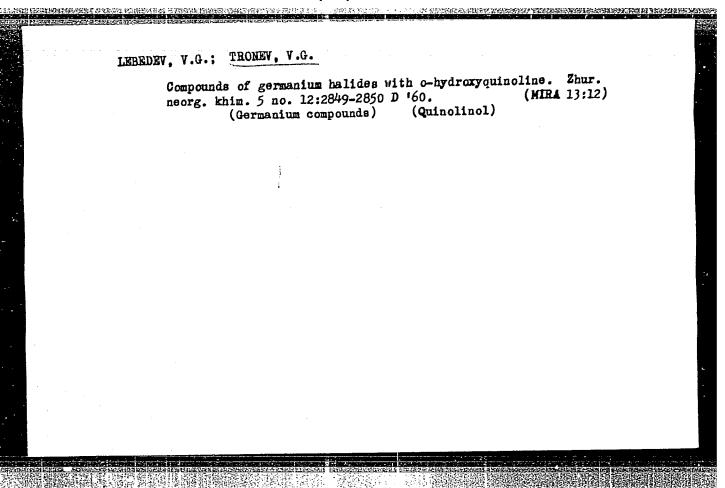
determined the molecular weight of the complex chlorides (Table 2) which proved to be monomeric. The system GeCl₄-phenanthroline was studied in chloroform solution by the optical method. The formation of a GeCl₄·C₁₂H₈N₂ compound was also consistent with the analytical data. The

GeCl₄·C₁₂H₈N₂ compound was also consistent with the stability was studied with Kurnakov's pyrometer. The heating thermal stability was studied with Kurnakov's pyrometer. The heating thermal stability was studied with Kurnakov's pyrometer. The heating thermal stability of GeCl₄ and (Fig. 3, Table 3). A regular change of the thermal stability of GeCl₄ and (Fig. 3, Table 3). A regular change of the thermal stability and Chusavev

GeBr₄ compounds with amines was observed. A. O. Alekseyeva and Chugayev are mentioned. There are 3 figures, 3 tables, and 9 references: 5 Soviet,

Card 2/3





TRONEV, V.G.; KULIKOVSKIY, B.N.

Products of the Te oxidation by cxygen under pressure in water and aqueous solutions of NaOH. Zhur.neorg.khim..7 no.9:2278-2280 (MIRA 15:9)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.

(Tellurium oxide)

BABUSHKINA, G.K.; TRONEV, V.G.

AND THE SECOND PROPERTY OF THE PROPERTY OF THE

Synthesis and investigation of rhenium (IV) aminohalides. Production and properties of rhenium dipyridinetetrabromide. Dokl. AN SSSR 142 no.22344-346 Ja 162. (MIRA 15:2)

l. Institut obshehey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR. Predstavleno akademikom I.I.Chernyayevym. (Rhenium compounds)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720012-0"

5/020/62/147/005/018/032 B117/B186

Complex indium compounds of lowest ...

于多的人员的**经验的**基础的

InI.NH₃ to 120 - 150°C and of InBr.NH₃ to 145°C causes their simultaneous dissociation into InM and NH₃ and disproportionation into 2In met and the corresponding InM.5NH₃. Exothermic effects observed at 60 - 70°C and 40 - 50°C indicated transition into the more stable crystalline form of the compounds studied, since the composition and properties remained unchanged. When the pressure is increased to 6-8 atm, or if liquid NH₃ is used, disporportionation yields grayish black InM.2NH₃ products.

InM₃.NH₃ were synthesized under the same conditions and studied thermographically to prove the composition of these products. Thus, trihalides yield InM₃.6NH₃. Thermograms showed the decomposition of these products down to InM₃.NH₃, and fusion of metallic In. The presence of In in this reaction was also proved by X-ray analysis. The reaction of In met with NH₃ sets in at the melting point of indium and shifts to the right in the thermogram at higher temperatures. The last exothermic effects at

Card 2/3

5/020/62/147/005/018/032 Complex indium compounds of lowest ...

345 and 270°C correspond to the fusion of monohalides containing small amounts of In and ammoniates of In III, which do not take part in the reaction. Conclusion: The reaction of InM with NH3 causes either addition or disproportionation, according to the conditions. products are monoammoniates and diammoniates. Compounds containing a larger number of NH3 molecules were not obtained owing to disproportionation of In I into Inmet and In III at higher ammonia pressures. There are 2 figures and 1 täble.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im.

N.S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N.S. Kurnakov of the Academy

of Sciences USSR)

July 16, 1962, by I.I. Chernyayev, Academician PRESENTED:

SUBMITTED: July 4, 1962

Card 3/3

CIA-RDP86-00513R001756720012-0

44541 S/020/62/147/006/022/034 B144/B101

AUTHORS:

Kochetkova, A. P., Tronev, V. G., Gilyarov, O. N.

TITLE:

Complex low-valency indium compounds. Synthesis and study

of the properties of indium dihalide ammines

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 147, no. 6, 1962,

TEXT: Complex compounds having 6 NH molecules (room temperature) and 8 NH₃ molecules (slightly below 0° C) are formed from In_2I_4 and In_2Br_4 molecules with gaseous NH3 at a pressure of 3-4 atm by a synthesis method described earlier (DAN, 147, no.5 (1962)). These compounds disproportionate already when synthesizing: In2Hal4.6NH3 + 2NH3 = InHal.2NH3 + InHal3.6NH3, or when heated to 60 - 85°C in an inert atmosphere with the separation of 2 NH3 molecules from the complex compound having 8 NH3 molecules, and with formation of In2Hal4.6NH3. Further

Card 1/3

. S/020/62/147/006/022/034 B144/B101

Complex low-valency indium compounds ...

conversion is different in iodides and bromides: In₂I₄·6NH₃
= InI + InI₃·5NH₃ + NH₃ with an exothermic effect at 120°C;
In₂Br₄·6NH₃ = InBr·NH₃ + InBr₃·5NH₃ with an exothermic effect at 85°C.
Ammine compounds of trivalent In decompose and react with InHal yielding dihalides as final products. Under exposure to air or water, metallic indium is formed. Complex compounds containing 6 and 8 NH₃ molecules are stable in an inert medium. These results, justify assuming a dimer structure with a metal - metal bond, in which In is tetravalent. On disproportionation the binding electron pair is shifted toward an In atom. The kind of amine determines the bond strength and thus also the tendency to disproportionate. This will make it possible to determine the valency of indium in complex compounds with the formal valency of 2. There are 1 figure and 1 table.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova (Institute of General and Inorganic Chemistry imeni N.S. Kurnakov)

Card 2/3

Complex low-valency indium compounds ... 8/020/62/147/006/022/034 B144/B101

PRESENTED: July 16, 1962, by I. I. Chernyayev, Academician

SUBMITTED: July 4, 1962

Card 3/3

SPIVAKOVA, E.M.; TANANAYEV, I.V., akademik, otv. red.; TRONEV, V.G., doktor khim. nauk, zam. otv. red.; KASHINA, P.S., tekhn. red.

[Chemistry of the rare elements; a bibliographic index of Soviet and foreign literature] Khimiia redkikh elementov; bibliograficheskii ukazatel otechestvennoi i zarubezhnoi bibliograficheskii ukazatel otechestvennoi i zarubezhnoi literatury. Moskva, Izd-vo AN SSSR. No.2. (1955-1956). (MIRA 17:2) 1963. 354 p.

1. Glavnyy bibliograf Biblioteki Otdeleniya khimicheskikh nauk AN SSSR (for Spivakova).

կ5կ61 s/078/63/008/003/019/020 в117/в186

5,3750

AUTHORS: Kochetkova, A. P., Tronev, V. G., Gilyarov, O. N.

TITLE:

Compounds of indium with glycine

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 8, no. 3, 1963, 772-774

TEXT: Glycine compounds of indium with the formula $In(GlH)_{3-n}^{Gl} Cl_{3-n}^{Gl} Cl_{3-n}^{Gl} (n=0,1,2,3)$ and of the compositions $In(GlH)_3^{Gl} Cl_3$, $In(GlH)_2^{Gl} Cl_2$, and $InGl_3^{Gl}$ were synthesized by the method described for gallium (Zh.neorgan. khimii, 6, 1583 (1961)) and investigated. Their structure is similar to that of the corresponding gallium compounds and their heat resistance also increases analogously due to ring formation. Decomposition of $In(GlH)_3^{Gl} Cl_3^{Gl}$ starts below the melting point of glycine (255°C) at 160°C. Decomposition of $In(GlH)_2^{Gl} Cl_2^{Gl}$ occurs at 255-265°C, and that of $InGl_3^{Gl}$ only at 285°C. Indium-nitrogen bonds are unstable in triglycinate and triglycino chlorides subjected to the action of gaseous ammonia under

Card 1/2

Compounds of indium with glycine

S/078/63/008/003/019/020 B117/B186

pressure. In this respect, they differ from the corresponding gallium compounds. There is 1 figure.

SUBMITTED:

August 16, 1962

Card 2/2

KULIKOVSKIY, B.N.; MIKHAYLOV, Yu.N.; TRONEV, V.G.

Products of the oxidation of Te by oxygen under pressure in aqueous solutions of KOH. Zhur.neorg.khim. 8 no.9:2088-2092 S '63. (MIRA 16:10)

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CIA-RDP86-00513R001756720012-0" **APPROVED FOR RELEASE: 03/14/2001**

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Synthesis and certain properties of pyridinium pyridinepentahalorhenates (IV); PyH[RePyCl5] and PyH[RePyBr5]. (MIRA 16:9) Dokl. AN SSSR 152 no.1:100-101 S '63.

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SPIVAKOVA, E.M.,; BABAYAN, I.A.; TANANAYEV, I.V., akademik, otv. red.; TRONEV, V.G., doktor khim. nauk, zam. otv. red.; DOROKHINA, I.N., tekhn. red.

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L 11588-66 EWT(m)/	SOURCE CODE	: UR/0316/65/000/004/0116/0118
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Trongy, V. G. (D	eceased); Dovlyatshina, R. A.	
T	try. AN AzerbSSR (In-t khimii	an Azerbsski
rare. Synthesis of then	ium triiodide and certain hal	oammines of rhenium
	khimicheskiy zhurnal, no. 4,	1965, 110-110
mace when ium. The	nium compound, complex compou	und, iodide, chloride, bromide,
ABSTRACT: Rhenium triio	dide was synthesized and reac A rhenium brompammine complex	ted with ammonia to form a rheni- was prepared by treating RhBr; and composition of rhenium halo- mixture of ReJ with an excess of ent of ReJ; produced the follow-
ing transitions:	190°C ReJ 470°C ReJ	610°C Re.
		drous gaseous ammonia at 5-6 atm as prepared by treating a benzene
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polution of ReBr ₃ with an anhydrous gaseous ammonia for 6-7 hours at 6-7 atm at room temperature. The stability of Re III-ammines decreases in the order ReCl ₃ > ReBr ₃ >							
> ReJ3. Orig. as	rt. has: 2 fig	Re l table				•	
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TRONEV, V.G. [deceased]; DOVLYATSHINA, R.A.

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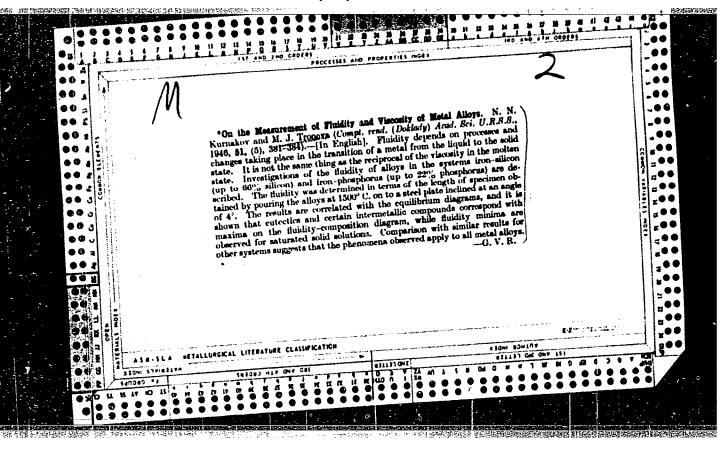
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(Callium compounds) (Glycine)

